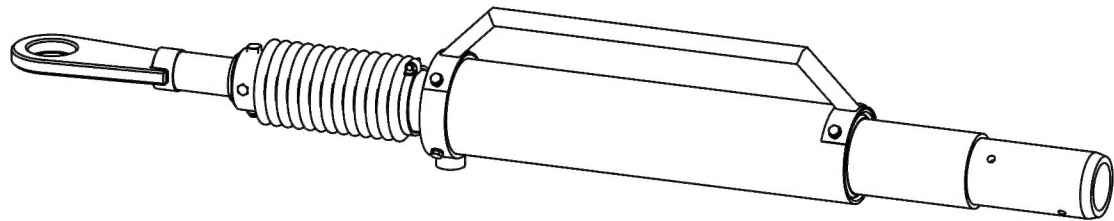


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		DELETED -063 FROM DWG., MADE REFERENCE IN BOM FOR -063 TO SEE RBW0905G12351-3G.	4/28/2010	RJC	
1A		REMOVED BREAK AWAY ASSY. PARTS -053 THRU -063 , -173 THRU -177 & -181 THRU -187 . REMOVED ASSOCIATED PAGES, AND RE-NUMBERED ALL PAGES & CORRECTED BOM.	5/19/2010	RJC	
2		-001 ADDED NOTES TO PUNCH HOLES AS REQ. IN BELLOW AND TO COMPRESS ASSEMBLY. REMOVED -169 AND -171 . -003 REMOVED PART -011 FROM WELDMENT. -007 , -011 , -017 , -019 CH'D DIM WAS Ø.473 IS Ø.472 AND ADDED LIMITS. -015 , -021 , -023 ADDED NOTE FOR FINISH "ANODIZE CLEAR". -041 ADDED 16.562 REF DIM. -033 ADDED NOTES TO MASK AREA PRIOR TO POWDER COAT AND FOR DUAL FINISH. MOVED TONGUE ASSY. INTO SEPERATE FILE AND CORRECTED BOM.	1/21/2013	BIM	SE
3		CH'D DIM PRECISION FROM .XXX TO .XX ON NON-CRITICAL PARTS & UPDATED SHEET FORMATS. SEPERATED PARTS TO INDIVIDUAL SHEETS. -001 REMOVED FINISH NOTE WAS "FORREST T-5920 S9 YELLOW RIBBON". -013 SEPERATED INTO TWO WELDMENTS, MOVED PARTS -027 & -029 TO ASSEMBLY -001 . -014 ADDED WELDMENT FOR PARTS -015 , -017 , & -019 . -015 DELETED NOTE TO FINISH BEFORE WELDMENT. -031 MOVED TO SEPERATE DWG IS RBW0905G01652-3G. -033 CORRECTED SECTION VIEWS. -041 CORRECTED DESCRIPTION IN BOM WAS "POWDERCOAT WELDMENT" IS "HANDLE WELDMENT", ADDED FINISH POWDER COAT FED #13538. -235 ADDED B/O INFO TO BOM IS MCMASTER-CARR #9421K65. -245 WAS PLASTIC ZIP-TIE IS S.S. HOSE CLAMP. -155 CH'D C-SINK DIA WAS Ø.50 IS Ø.54.	12/18/2013	CFS	
4	14-0217	UPDATED TO NEW DRAFTING STANDARDS. -007 CH'D DIM WAS Ø.472 +.0003 -.0000 IS Ø.472 +.002 -.000. -015 CH'D DIM WAS Ø.473 THRU ALL S.F. -019 IS Ø.472 +.002 -.000 THRU ALL. ADDED DIM Ø2.00 +.000-.015 ∇ 1.20. -017 CH'D DIM WAS Ø.472 +.0003 -.0000 THRU ALL IS Ø.472 +.002 -.000 THRU ALL. -021 CH'D DIM WAS Ø3.500 S.F. -035 IS (Ø3.500) S.F. -035 . -027 CH'D B/O INFO WAS MCMASTER-CARR #92240A101 IS AN4-3A. -029 CH'D QTY WAS 2 IS 8. -033 CH'D DIMS WAS 2X Ø.316 THRU IS Ø.316 THRU ALL. WAS 2X Ø.316 THRU IS Ø.316 THRU ALL. -035 CH'D DIMS WAS Ø4.000 IS (Ø4.000), WAS Ø3.500 IS (Ø3.500). -037 CH'D DIM WAS Ø3.500 S.F. -035 IS (Ø3.500) S.F. -035 . -039 CH'D DIMS WAS (Ø4.375) IS Ø4.38, WAS Ø4.000 IS (Ø4.000) S.F. -035 . -041 CH'D DIM WAS 17.682 IS 17.687. -049 & -051 CH'D DIM WAS .263 IS .28. -155 CH'D DIM WAS Ø.257 IS Ø.28. -165 DELETED. CH'D TOLERANCE ON NON-CRITICAL DIMENSIONS.	11/17/2014	DPD	JAG
5	16-0188	UPDATED TO NEW STANDARDS . -003 CH'D TOL WAS ±.005/±.01/±.1 IS ±.010/±.03/±.1. -005 CH'D DIM WAS 1.74 IS 1.75, WAS (.625) IS .63. -009 CH'D DIM WAS (.075) IS .08 CH'D TOLERANCE WAS ±.005/±.01/±.1 IS ±.010/±.03/±.1. -014 CH'D TOL WAS ±.005/±.01/±.1 IS ±.010/±.03/±.1 -015 CH'D DIM WAS (Ø2.00) IS Ø2.00. -017 CH'D DIM WAS (.395) IS .40 WAS Ø2.00 IS Ø2.02. -021 CH'D DIM WAS (Ø3.500) S.F. -035 IS Ø3.480 (S.F. -035). -033 CH'D DIM WAS 4X 1/4-28 UNF ∇ 1.50 IS 5X 1/4-28 UNF ∇ 1.50; REMOVED DIM Ø.266 ∇ 1.50. -035 CH'D DIM WS (Ø4.000) IS Ø4.00, WAS (Ø3.500) IS Ø3.50. -037 CH'D DIM WAS (Ø3.500) S.F. -035 IS Ø3.480 (S.F. -035). -039 CH'D DIM WAS (Ø4.000) S.F. -035 IS Ø4.02 (S.F. -035). -49 , -51 CH'D DIM WAS (.075) IS .08, WAS 2X .28 IS 2X .290. -33 CH'D B/O INFO WAS DART #RBW0905G12631-3G IS RBW0905G01652-3G; REMOVED P/N. -191 CH'D B/O INFO WAS 3/8-24 UNF (MCMASTER-CARR #97135A235) IS 3/8-24 UNF (MCMASTER-CARR #90566A220).	10/24/2016	SM	JAG

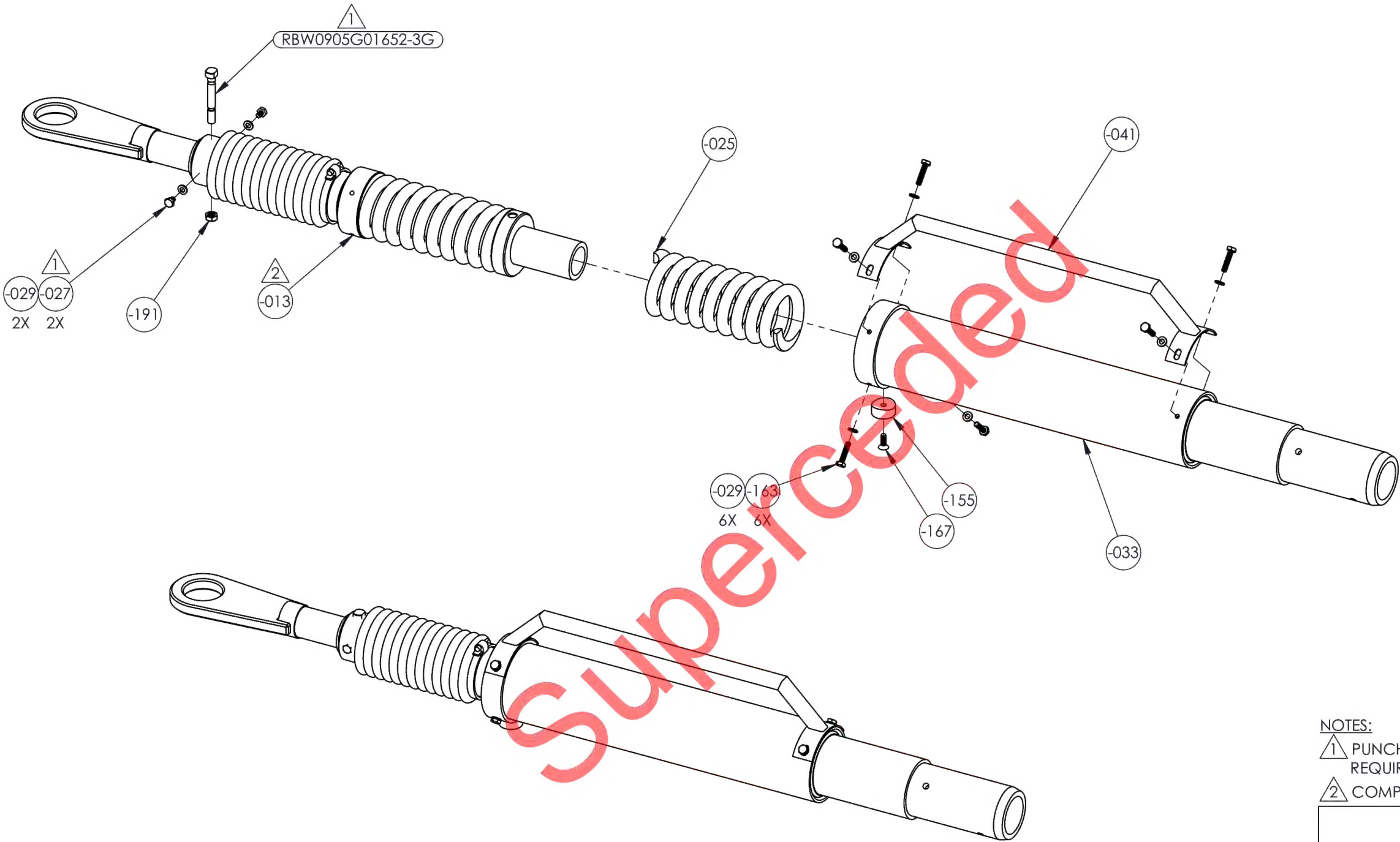
ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
					X		-001	1	TONGUE ASSEMBLY			2
		1	X				-003		TONGUE WELDMENT			3
			1				-005		TONGUE	304 S.S.		4
			1				-007		TONGUE TUBE	304 S.S.		5
			1				-009		TONGUE CAP	304 S.S.		6
		1					-011		SLIDE PIN	304 S.S.		7
		X		1			-013		SPRING SECTION WELDMENT			8
		1					-014		GUIDE WELDMENT			9
		1					-015		DRAW TUBE	6061		10
		1					-017		SPRING CENTER STOP	6061		11
		1					-019		CENTER STOP PIN	6061		12
			1				-021		SPRING FRONT STOP	6061		13
			1				-023		FRONT COLLAR	6061		14
			1		1	B/O	-025		SPRING	SPRING STEEL	CENTURY SPRING #73358	2&8
					2	B/O	-027		HEX HEAD CAP SCREW	S.S.	1/4-28 UNF X 3/8 AN4-3A	2
					8	B/O	-029		FLAT WASHER	PLATED STEEL	Ø1/4 AN960-416	2
	X				1		-033		SPRING COVER WELDMENT			15
	1						-035		SPRING COVER	6061		16
	1						-037		TAIL	6061		17
	1						-039		SPRING COVER	6061		18
X					1		-041		HANDLE WELDMENT			19
1							-043		TOP TUBE	STEEL SQ. TUBING		20
1							-045		FRONT TUBE	STEEL SQ. TUBING		21
1							-047		REAR TUBE	STEEL SQ. TUBING		22
1							-049		FRONT MOUNT	1018		23
1							-051		REAR MOUNT	1018		24
					1		-155		STOP	WHITE DERLIN		25
					6	B/O	-163		HEX HEAD CAP SCREW	PLATED STEEL	1/4-28 UNF X 1-1/8 (MCMASTER-CARR #92620A701)	2
					1	B/O	-167		FLAT SOCKET HEAD CAP SCREW	PLATED STEEL	1/4-28 UNF X 3/4 (MCMASTER-CARR #91263A255)	2
					1	B/O	-191		NYLON INSERT LOCK NUTS	PLATED STEEL	3/8-24 UNF (MCMASTER-CARR #90566A220)	2
			1			B/O	-235		C.V. BOOT; ROUND BELLOW	BLACK RUBBER	2-1/2 CUFF ID (MCMASTER-CARR #9421K65)	8
			1			B/O	-245		HOSE CLAMP	S.S.	1/2 X 2-1/16 - 3 (MCMASTER-CARR #5415K22)	8
					1				TONGUE SHEAR BOLT		RBW0905G01652-3G	2
ASSY -041	ASSY -033	ASSY -014	ASSY -013	ASSY -003	ASSY -001							

- NOTES:
1. USED IN ASSY RBW0905G00134-3G.
2. USED WITH RBW0905G12631-3G.
3. USED WITH RBW0905G00134-3G-03.

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01	REV 5
MAT'L HEAT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ±.5° .X ± .1 SURFACES = 125/✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:8	DATE 2/12/2010
SHEET 1 OF 25	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-001 ADDED NOTES TO PUNCH HOLES AS REQ. IN BELLOWS AND TO COMPRESS ASSEMBLY. REMOVED -169 & -171.	1/21/2013	BIM	SE
3		-001 REMOVED FINISH NOTE WAS "FORREST T-5920 S9 YELLOW RIBBON". MOVED PARTS -027 & -029 TO ASSEMBLY -001.	12/18/2013	CFS	



NOTES:

- 1 PUNCH HOLES INTO -235 BELLOWS AS REQUIRED THEN FASTEN.
- 2 COMPRESS SPRINGS TO ASSEMBLY.

TITLE
TONGUE ASSEMBLY, TOW DOLLY

DWG NO. RBW0905G00134-3G-01-001

REV 5

MAT'L

HEAT TREAT

FINISH

SPEC

DRAWN BY: PERRITT

CHECKED: CLOUGH

OPPS APPR: ANDERSON

QA APPR: LINDSAY

APPROVED: GILBERT

SCALE 1:6

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

.XXX ± .005 FRACTIONS ± 1/8

.XX ± .01 ANGLES ± 5°

.X ± .1 SURFACES = 125°

1. BREAK ALL SHARP EDGES
.015 x 45° OR .015R

2. DIMENSIONAL LIMITS APPLY
AFTER PLATING

3. INTERPRET DIM AND TOL PER
ASME Y14.5M-2009

USED ON MODEL
AGUSTA AW139

DATE 2/12/2010

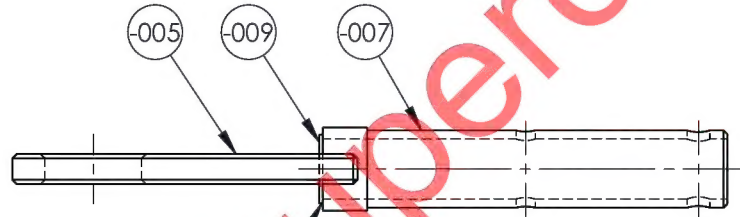
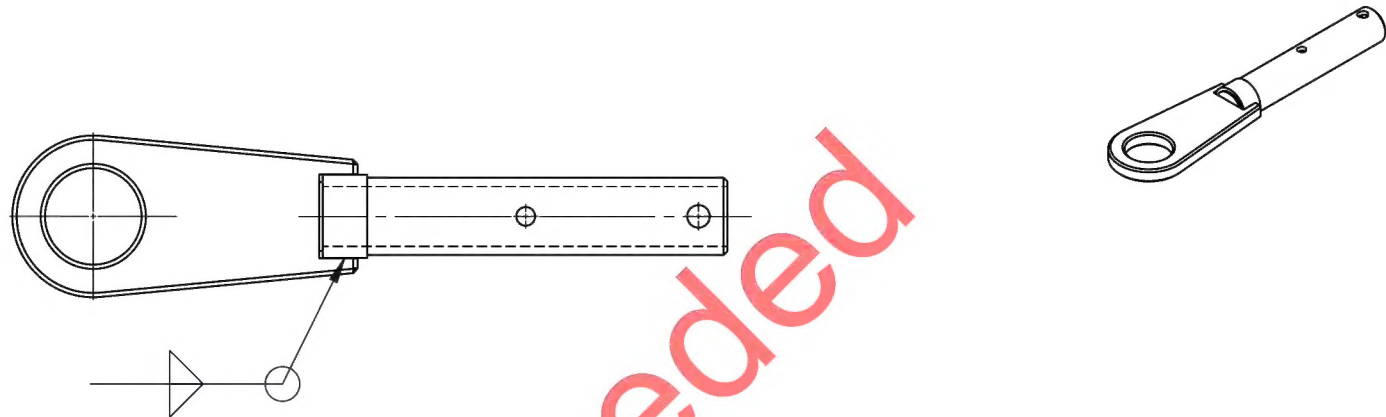
SHEET 2 OF 25

-001

TONGUE ASSEMBLY

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-003 REMOVED PART -011 FROM WELDMENT.	1/21/2013	BIM	SE
5	16-0188	-003 CH'D TOL WAS $\pm.005/\pm.01/\pm.1$ IS $\pm.010/\pm.03/\pm.1$.	10/24/2016	SM	JAG



WELD TO TUBE
TURN SMOOTH
THEN WELD TO
TONGUE

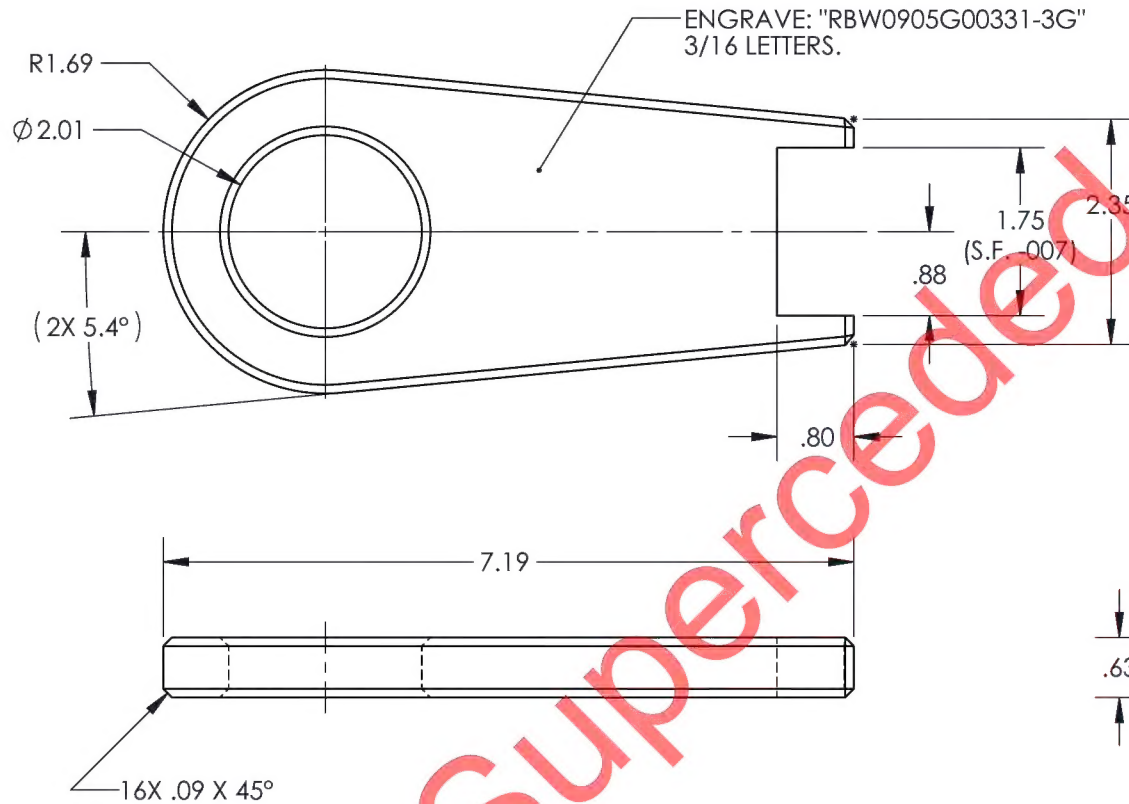
-003

TONGUE WELDMENT

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-003	REV 5
MAT'L HEAT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX \pm .010 FRACTIONS \pm 1/8 .XX \pm .03 ANGLES \pm 1° .X \pm .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:4	DATE 2/12/2010 SHEET 3 OF 25

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
5	16-0188	-005 CH'D DIM WAS 1.74 IS 1.75, WAS (.625) IS .63.	10/24/2016	SM
				JAG



(-005)
TONGUE

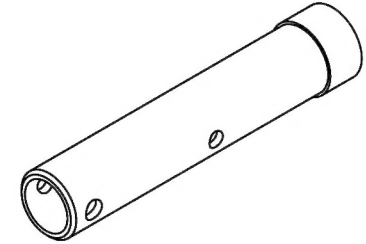
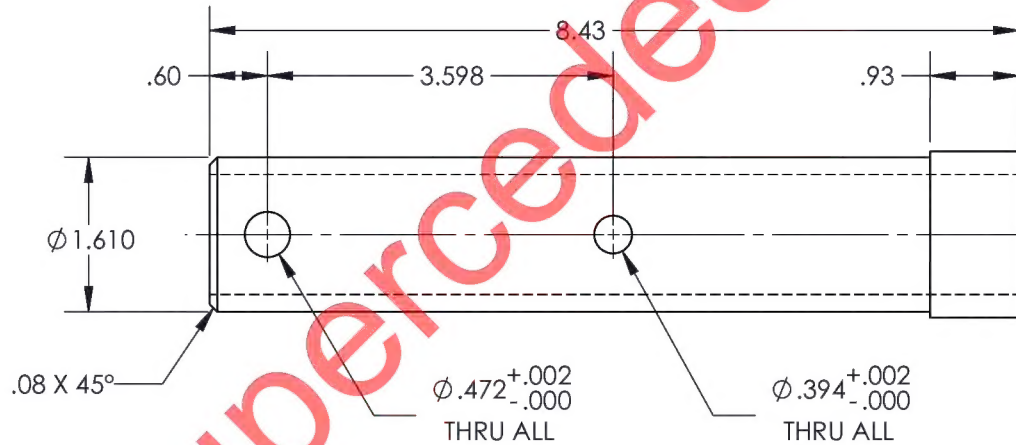
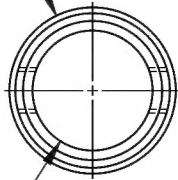
DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-005	REV 5
MAT'L 304 S.S.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:2	DATE 2/12/2010
SHEET 4 OF 25	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-007 CH'D DIM WAS Ø.473 IS Ø.472 AND ADDED LIMITS.	1/21/2013	BIM	SE
4	14-0217	-007 CH'D DIM WAS Ø.472 +.0003 -.0000 IS Ø.472 +.002 -.000.	11/18/2014	DPD	JAG

Ø 1.73
(S.F. -005)

Ø 1.25



(-007)
TONGUE TUBE



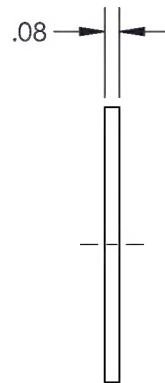
TITLE
TONGUE ASSEMBLY, TOW DOLLY

DWG NO. RBW0905G00134-3G-01-007 REV 5

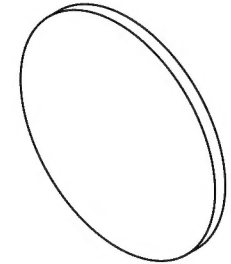
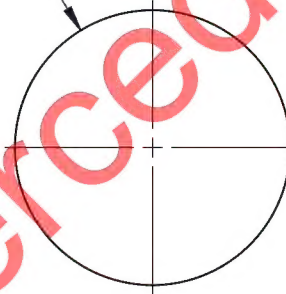
MAT'L 304 S.S.		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT FINISH		DIMENSIONS ARE IN INCHES	
SPEC		.XXX ± .005 FRACTIONS ± 1/8	
DRAWN BY: PERRITT		.XX ± .01 ANGLES ± 5°	
CHECKED: CLOUGH		.X ± .1 SURFACES = 125°	
OPPS APPR: ANDERSON		1. BREAK ALL SHARP EDGES	
QA APPR: LINDSAY		.015 x 45° OR .015R	
APPROVED: GILBERT		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:2		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DATE 2/12/2010		USED ON MODEL	
SHEET 5 OF 25		AGUSTA AW139	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5	16-0188	-009 CH'D DIM WAS (.075) IS .08 CH'D TOLERANCE WAS $\pm .005/\pm .01/\pm .1$ IS $\pm .010/\pm .03/\pm .1$.	10/24/2016	SM	JAG



Ø 1.43



Superceded

(-009)

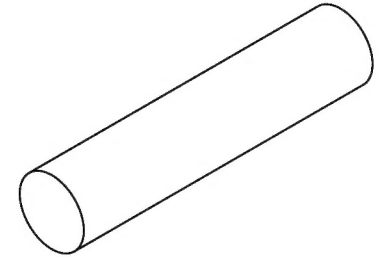
TONGUE CAP



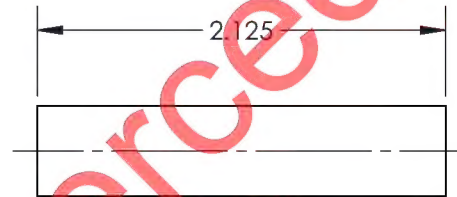
TITLE		TONGUE ASSEMBLY, TOW DOLLY	
DWG NO.		RBW0905G00134-3G-01-009	
REV		5	
MAT'L 304 S.S.		UNLESS OTHERWISE SPECIFIED	
TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX \pm .010 FRACTIONS \pm 1/8	
SPEC		.XX \pm .03 ANGLES \pm 1°	
DRAWN BY: PERRITT		.X \pm .1 SURFACES = 125°	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE 1:1		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DATE 2/12/2010		USED ON MODEL	
SHEET 6 OF 25		AGUSTA AW139	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-011 CH'D DIM WAS Ø.473 IS Ø.472 AND ADDED LIMITS.	1/21/2013	BIM	SE



Ø.472^{+0.000}
-0.002



Superceded

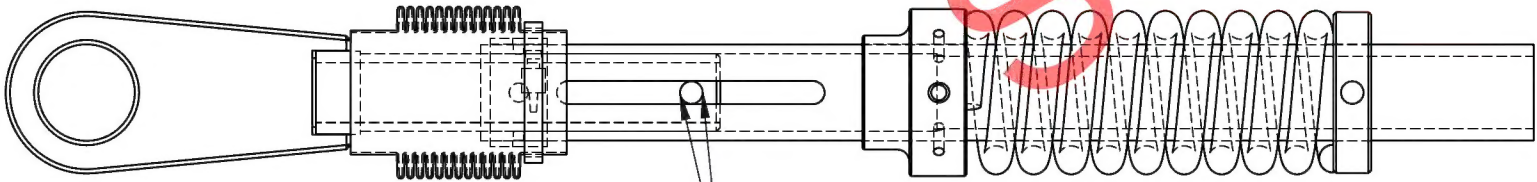
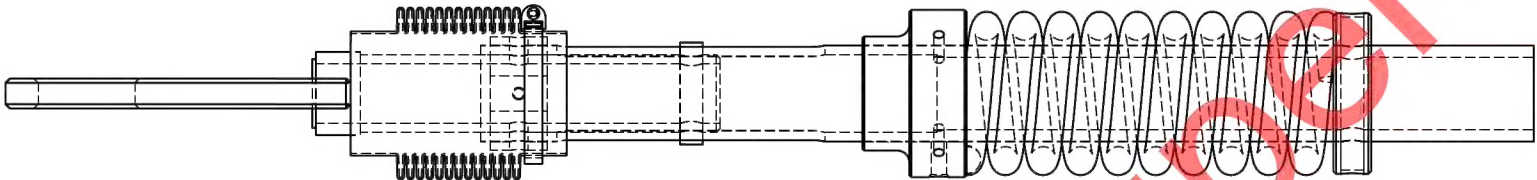
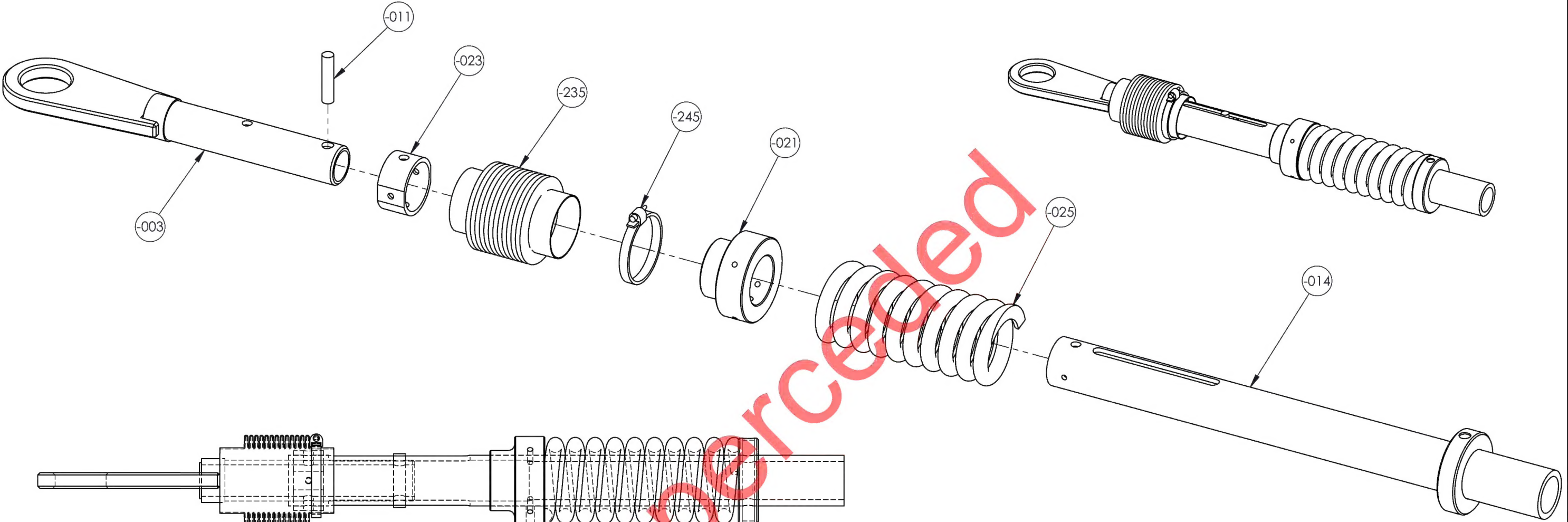
(-011)

SLIDE PIN

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-011	REV 5
MAT'L 304 S.S.	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 1:1	DATE 2/12/2010
	SHEET 7 OF 25

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		-013 SEPERATED INTO TWO WELDMENTS, MOVED PARTS -027 & -029 TO ASSEMBLY -001. ADDED WELDMENT -014 FOR PARTS -015, -017, & -019.	12/18/2013	CFS	



TACK WELD TOP
AND BOTTOM

-013

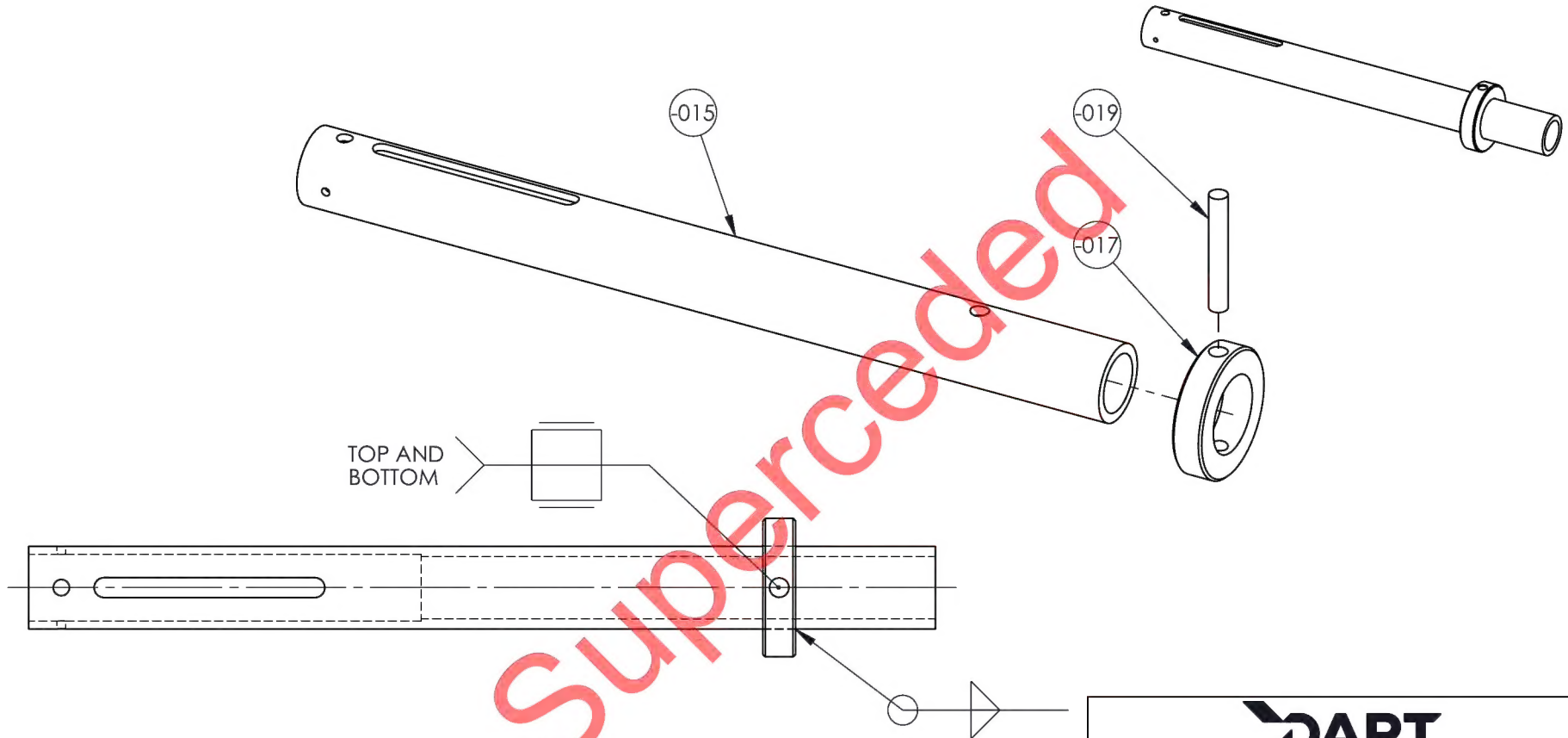
SPRING SECTION WELDMENT

NOTE:
BEFORE WELDING -011 PIN INSTALL -235 BOOT
& -245 CLAMP, TEMPORARILY WIRE FORWARD
OUT OF THE WAY.

DART AEROSPACE			
TITLE TONGUE ASSEMBLY, TOW DOLLY			
DWG NO. RBW0905G00134-3G-01-013			REV 5
MATERIAL		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX ± .005 FRACTIONS ± 1/8	
SPEC		.XX ± .01 ANGLES ± 5°	
DRAWN BY: PERRITT		.X ± .1 SURFACES = 125/	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE 1:4		3. INTERPRET DIM AND TOL PER	
DATE 2/12/2010		ASME Y14.5M-2009	
SHEET 8 OF 25		USED ON MODEL	
		AGUSTA AW139	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		-014 ADDED WELDMENT FOR PARTS -015, -017, & -019.	12/18/2013	CFS	
5	16-0188	-014 CH'D TOL WAS $\pm.005/\pm.01/\pm.1$ IS $\pm.010/\pm.03/\pm.1$	10/24/2016	SM	JAG

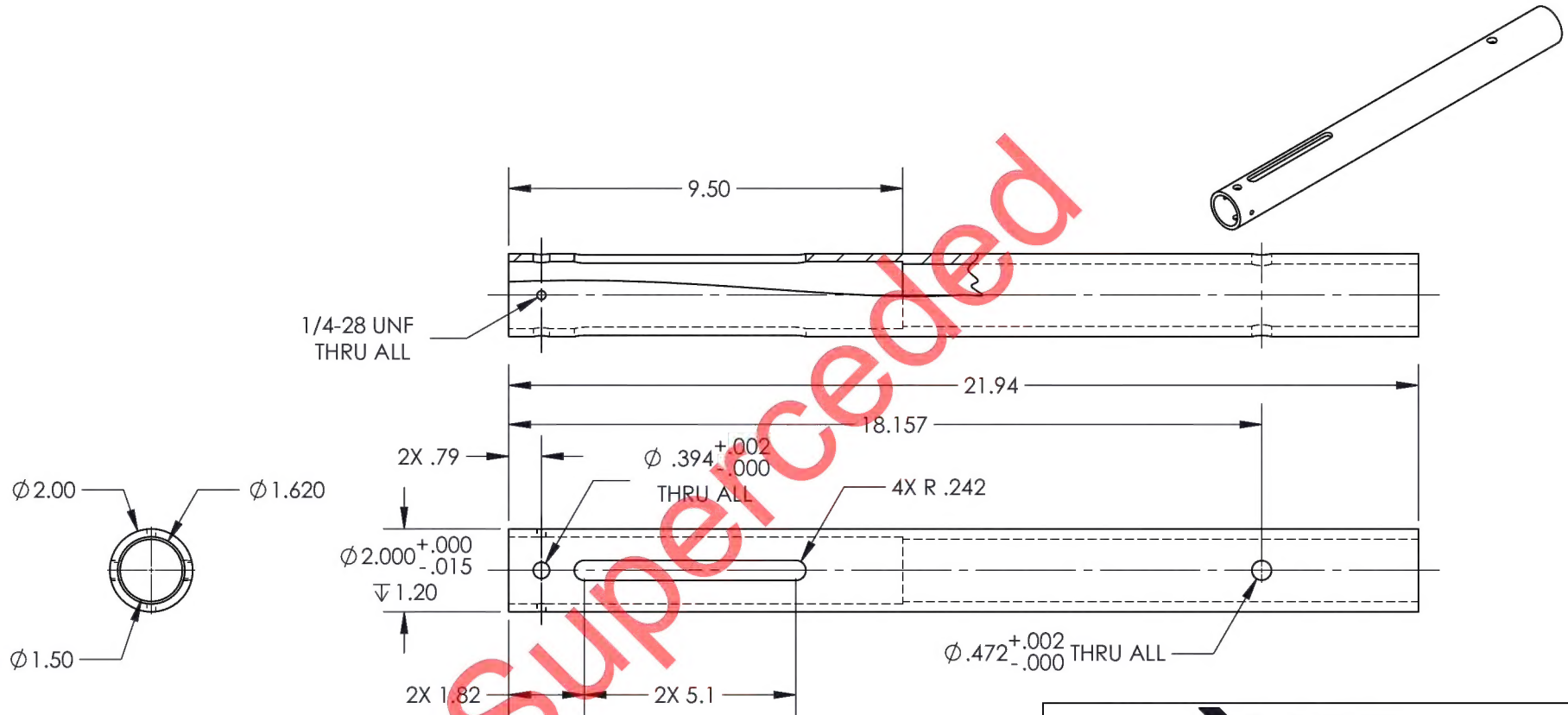


(014)
GUIDE WELDMENT

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-014	REV 5
MAT'L REPT TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX \pm .010 FRACTIONS \pm 1/8 .XX \pm .03 ANGLES \pm 1° .X \pm .1 SURFACES = 125°
DRAWN BY: SMITH	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:4	DATE 12/17/2013
SHEET 9 OF 25	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-015 ADDED NOTE FOR FINISH "ANODIZE CLEAR".	1/21/2013	BIM	SE
3		-015 DELETED NOTE TO FINISH BEFORE WELDMENT.	12/18/2013	CFS	
4	14-0217	-015 CH'D DIM WAS Ø.473 THRU ALL S.F. -019 IS Ø.472 +.002 -.000 THRU ALL. ADDED DIM Ø2.00 +.000-.015 ∇ 1.20.	11/18/2014	DPD	JAG
5	16-0188	-015 CH'D DIM WAS (Ø2.00) IS Ø2.00.	10/24/2016	SM	JAG



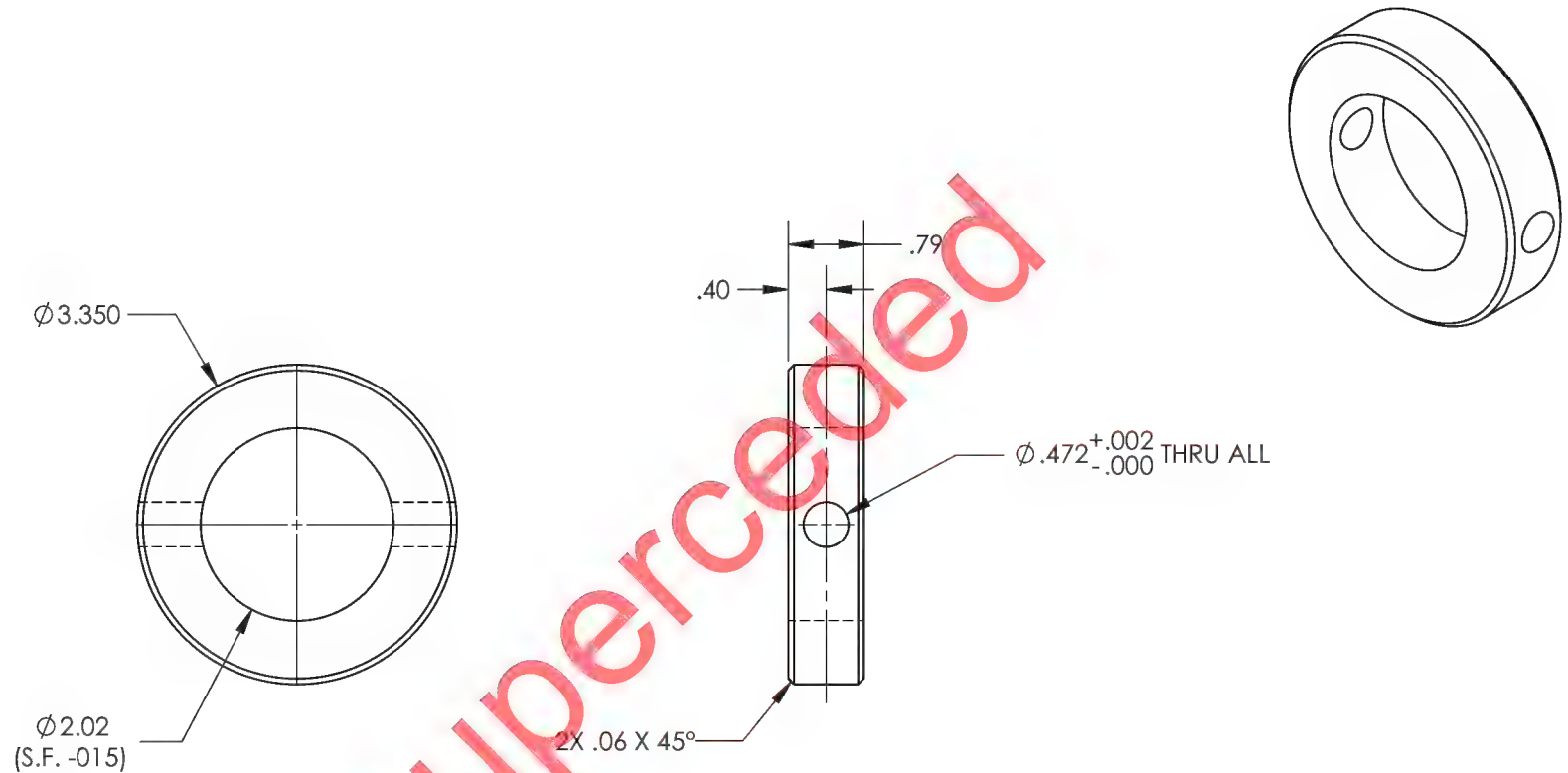
(-015)

DRAW TUBE

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-015	REV 5
MAT'L 6061	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH SEE WELDMENT -014	.XX ± .01 ANGLES ± 5°
SPEC	.X ± .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:2	DATE 2/12/2010
SHEET 10 OF 25	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-017 CH'D DIM WAS Ø.473 IS Ø.472 AND ADDED LIMITS.	1/21/2013	BIM	SE
4	14-0217	-017 CH'D DIM WAS Ø.472 +.0003 -.0000 THRU ALL IS Ø.472 +.002 -.000 THRU ALL.	11/18/2014	DPD	JAG
5	16-0188	-017 CH'D DIM WAS (.395) IS .40 WAS Ø2.00 IS Ø2.02.	10/24/2016	SM	JAG



(-017)

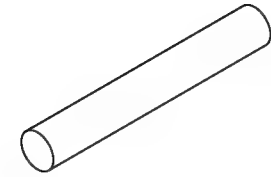
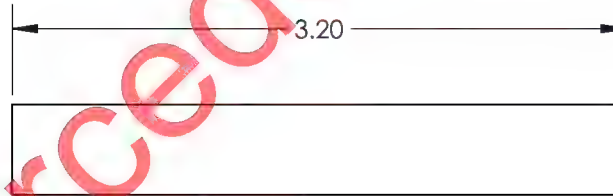
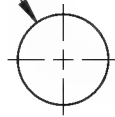
SPRING CENTER STOP

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-017	REV 5
MAT'L 6061	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH SEE WELDMENT -014	.XX ± .01 ANGLES ± .5°
SPEC	.X ± .1 SURFACES = 125° ✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:2	DATE 2/12/2010
SHEET 11 OF 25	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-019 CH'D DIM WAS Ø.473 IS Ø.472 AND ADDED LIMITS.	1/21/2013	BIM	SE

Ø.472^{+.000}_{-.002}



Superseded

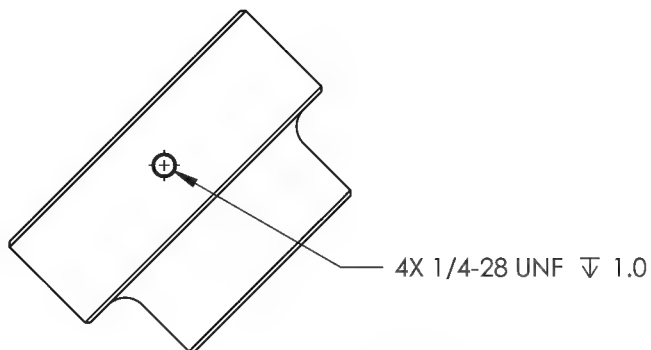
(-019)

CENTER STOP PIN

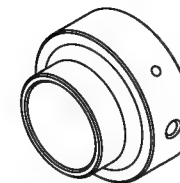
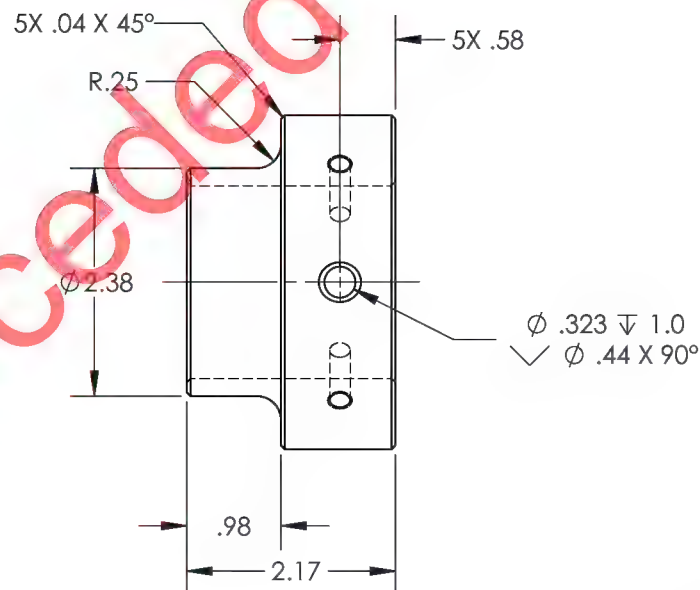
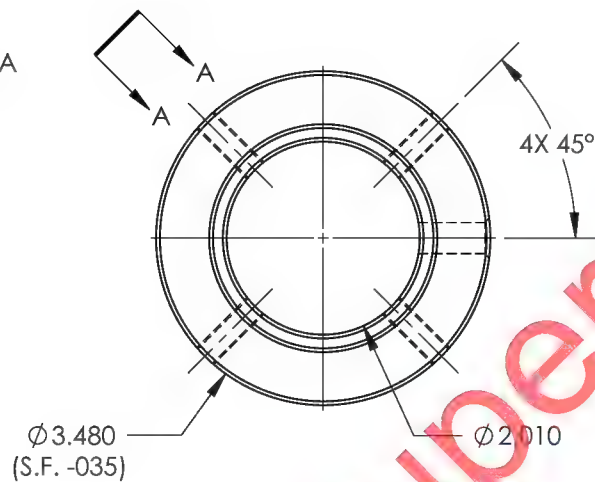
DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-019	REV 5
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE WELDMENT -014	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:1	DATE 2/12/2010
	USED ON MODEL
	AGUSTA AW139
	SHEET 12 OF 25

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-021 ADDED NOTE FOR FINISH "ANODIZE CLEAR".	1/21/2013	BIM	SE
4	14-0217	-021 CH'D DIM WAS Ø3.500 S.F. -035 IS (Ø3.500) S.F. -035.	11/18/2014	DPD	JAG
5	16-0188	-021 CH'D DIM WAS (Ø3.500) S.F. -035 IS Ø3.480 (S.F. -035).	10/24/2016	SM	JAG



AUXILIARY VIEW A-A



(-021)

SPRING FRONT STOP



TITLE
TONGUE ASSEMBLY, TOW DOLLY

DWG NO. RBW0905G00134-3G-01-021

REV
5

MAT'L 6061

HEAT TREAT

FINISH CLEAR ANODIZE

SPEC MIL-A-8625F, TYPE II, CLASS I

DRAWN BY: PERRITT

CHECKED: CLOUGH

OPPS APPR: ANDERSON

QA APPR: LINDSAY

APPROVED: GILBERT

SCALE 1:2

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

.XXX \pm .005 FRACTIONS \pm 1/8

.XX \pm .01 ANGLES \pm 5°

.X \pm .1 SURFACES = 125 \sqrt

1. BREAK ALL SHARP EDGES

.015 X 45° OR .015R

2. DIMENSIONAL LIMITS APPLY

AFTER PLATING

3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009

USED ON MODEL

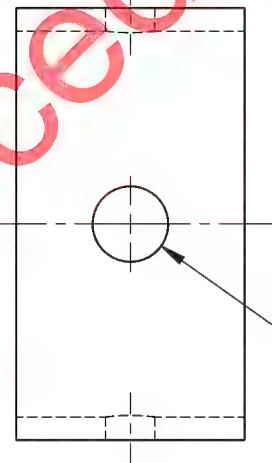
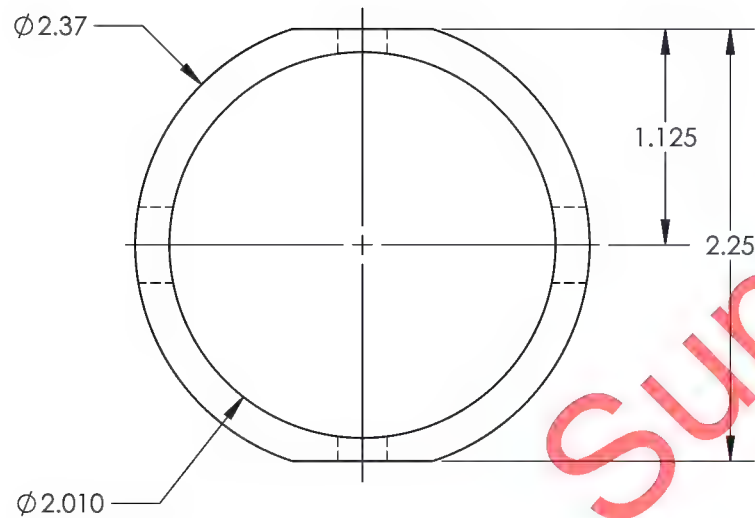
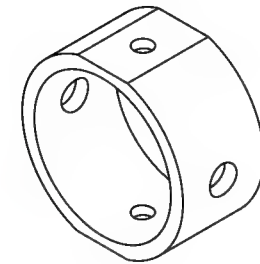
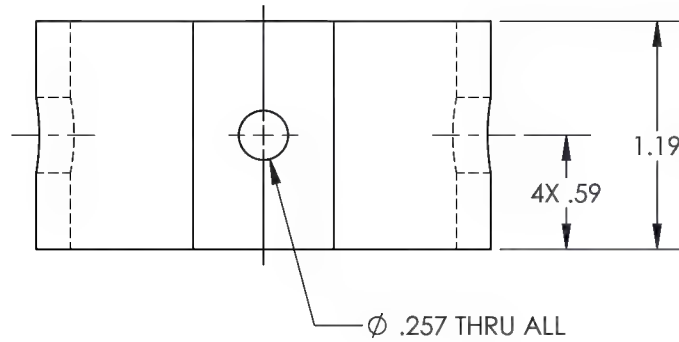
AGUSTA AW139

DATE 2/12/2010

SHEET 13 OF 25

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-023 ADDED NOTE FOR FINISH "ANODIZE CLEAR".	1/21/2013	BIM	SE



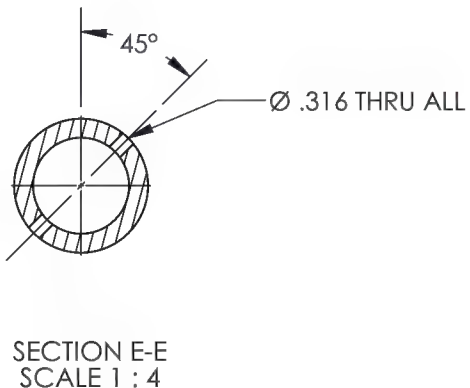
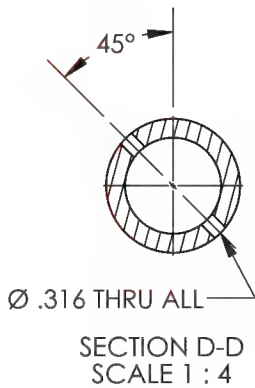
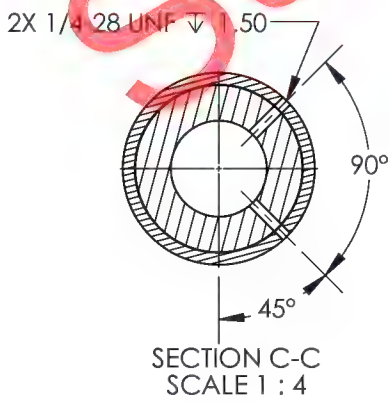
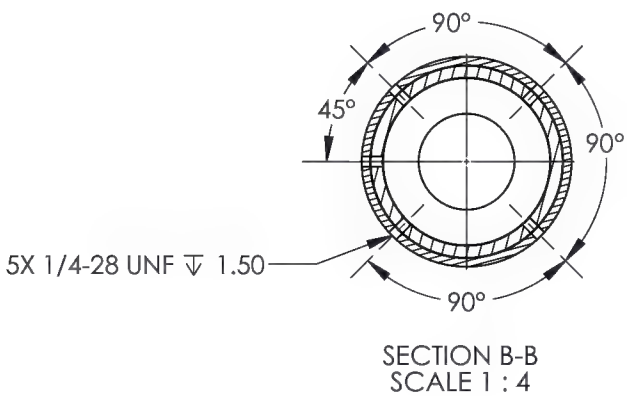
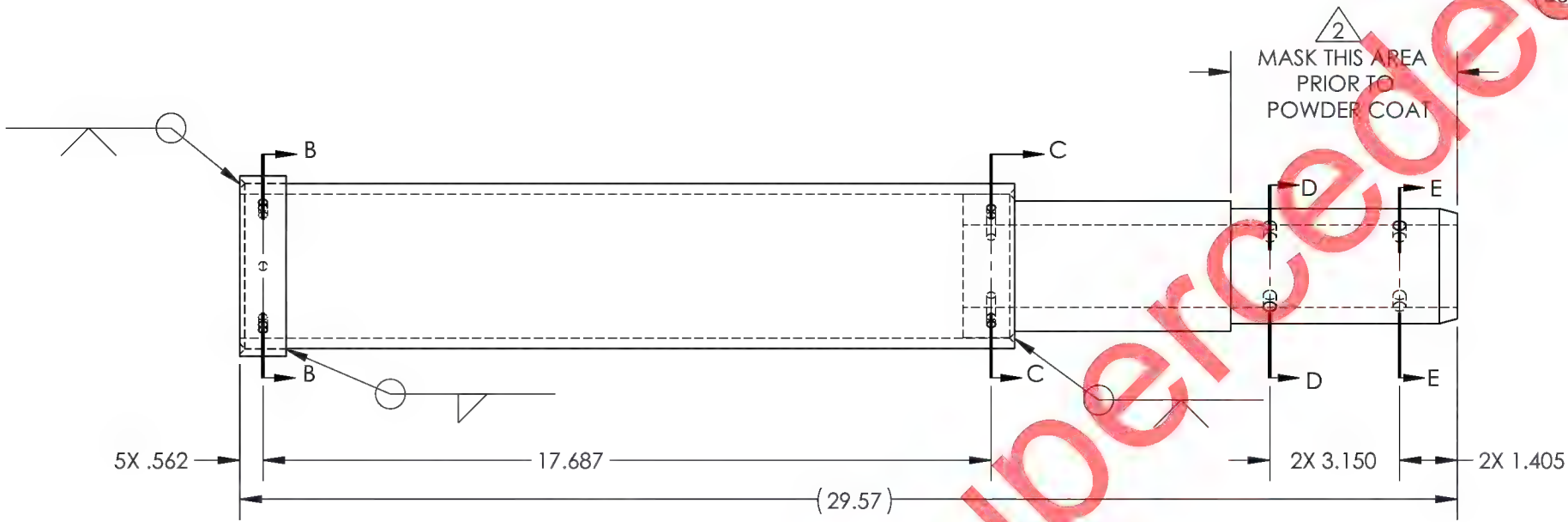
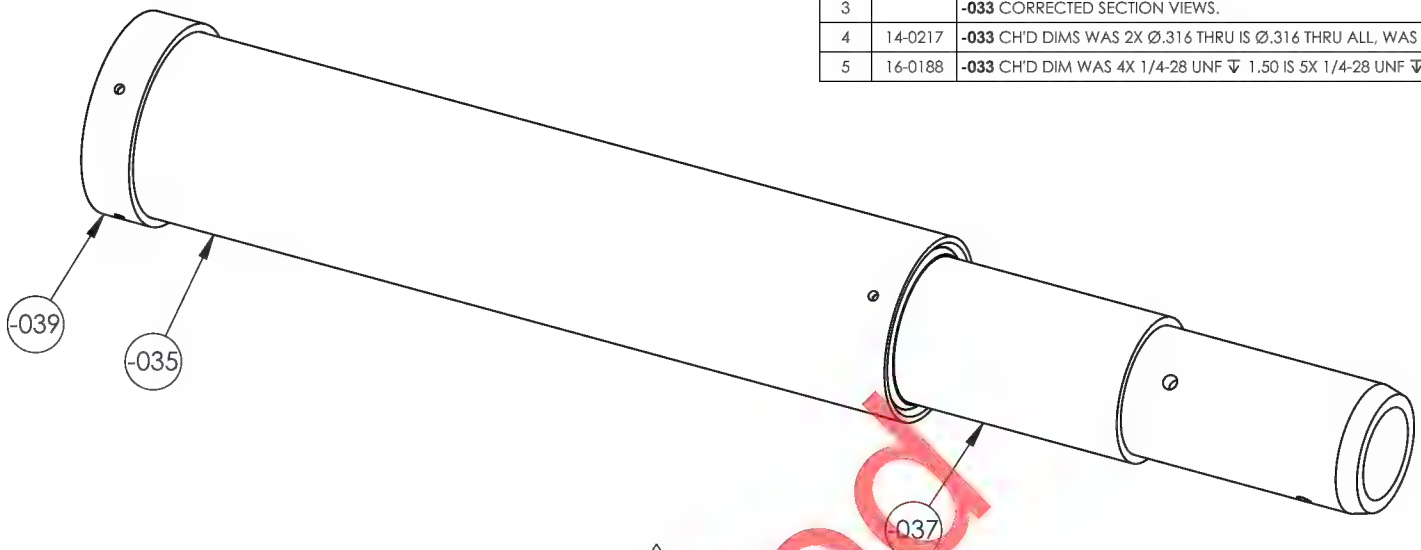
(-023)

FRONT COLLAR

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-023	REV 5
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH CLEAR ANODIZE	.XXX ± .005 FRACTIONS ± 1/8
SPEC MIL-A-8625F, TYPE II, CLASS I	.XX ± .01 ANGLES ± .5°
DRAWN BY: PERRITT	.X ± .1 SURFACES = 125
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
SCALE 1:1	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 2/12/2010	USED ON MODEL
SHEET 14 OF 25	AGUSTA AW139

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-033 ADDED NOTES TO MASK AREA PRIOR TO POWDER COAT AND FOR DUAL FINISH.	1/21/2013	BIM	SE
3		-033 CORRECTED SECTION VIEWS.	12/18/2013	CFS	
4	14-0217	-033 CH'D DIMS WAS 2X Ø.316 THRU IS Ø.316 THRU ALL, WAS 2X Ø.316 THRU IS Ø.316 THRU ALL.	2/12/2015	DPD	JAG
5	16-0188	-033 CH'D DIM WAS 4X 1/4-28 UNF ∇ 1.50 IS 5X 1/4-28 UNF ∇ 1.50; REMOVED DIM Ø.266 ∇ 1.50.	10/24/2016	SM	JAG

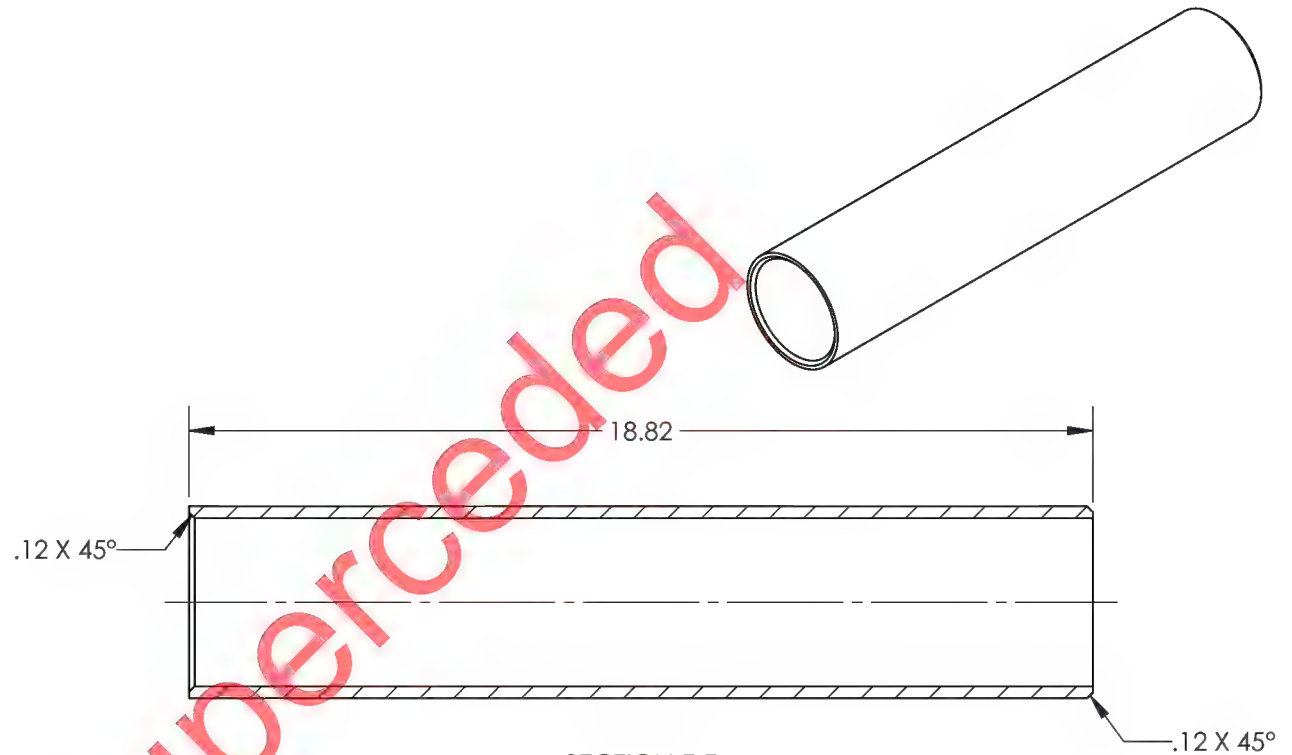
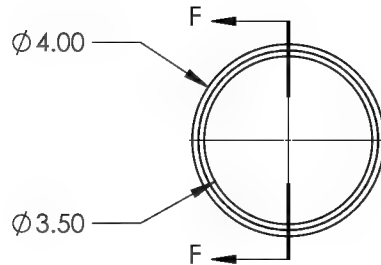


- NOTES:
- DUAL FINISH,
1ST; CLEAR ANODIZE,
SPEC. MIL-A8625F, TYPE 2, CLASS 1.
2ND; POWDER COAT YELLOW
SPEC. FED# 13538.
 - MASK AREA PRIOR TO POWDER COATING.

DART AEROSPACE			
TITLE TONGUE ASSEMBLY, TOW DOLLY			
DWG NO. RBW0905G00134-3G-01-033			REV 5
MAT'L		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH SEE NOTES		.XXX \pm .005 FRACTIONS \pm 1/8	
SPEC		.XX \pm .01 ANGLES \pm 5°	
DRAWN BY: PERRITT		.X \pm .1 SURFACES = 125	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE 1:4		3. INTERPRET DIM AND TOL PER	
DATE 2/12/2010		ASME Y14.5M-2009	
SHEET 15 OF 25		USED ON MODEL	
		AGUSTA AW139	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	14-0217	-035 CH'D DIMS WAS Ø4.000 IS (Ø4.000), WAS Ø3.500 IS (Ø3.500).	11/18/2014	DPD	JAG
5	16-0188	-035 CH'D DIM WS (Ø4.000) IS Ø4.00, WAS (Ø3.500) IS Ø3.50.	10/24/2016	SM	JAG



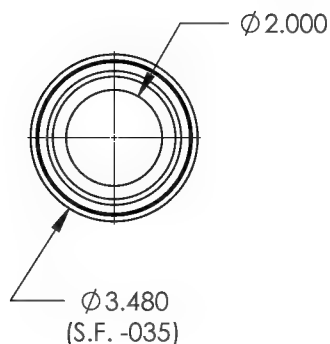
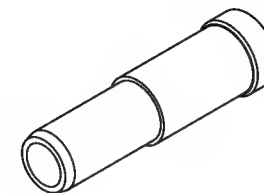
SECTION F-F

(-035)
SPRING COVER

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-035	REV 5
MAT'L 6061	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH SEE WELDMENT -033	.XX ± .01 ANGLES ± .5°
SPEC	.X ± .1 SURFACES = 125° ✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:4	DATE 2/12/2010
SHEET 16 OF 25	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	14-0217	-037 CH'D DIM WAS Ø3.500 S.F. -035 IS (Ø3.500) S.F. -035.	11/18/2014	DPD	JAG
5	16-0188	-037 CH'D DIM WAS (Ø3.500) S.F. -035 IS Ø3.480 (S.F. -035).	10/24/2016	SM	JAG



Superseded

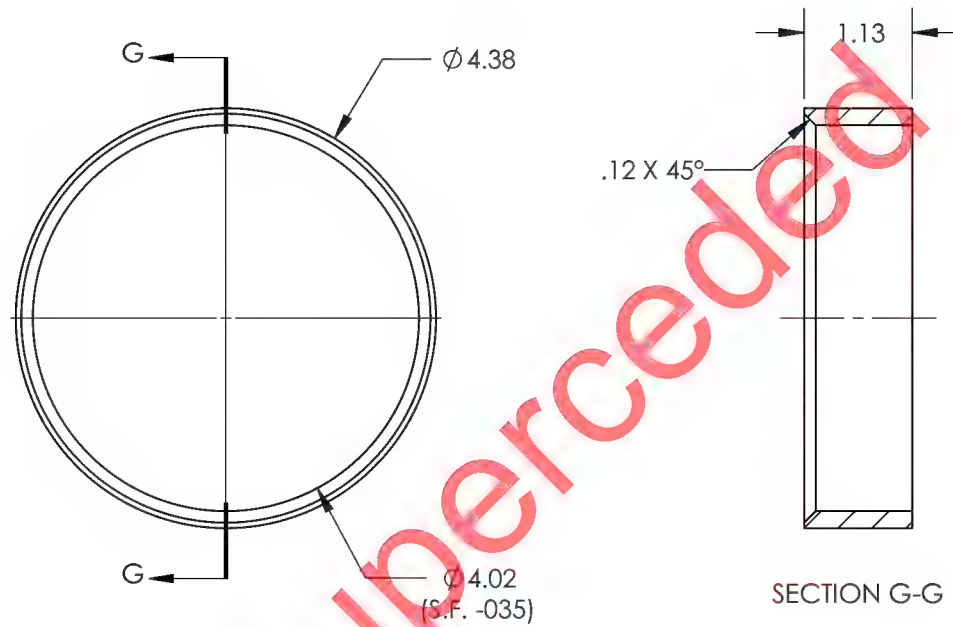
(-037)

TAIL

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-037	REV 5
MAT'L 6061	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE WELDMENT -033	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± 5°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:4	DATE 2/12/2010
	SHEET 17 OF 25

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	14-0217	-039 CH'D DIMS WAS (Ø4.375) IS Ø4.38, WAS Ø4.000 IS (Ø4.000) S.F. -.035.	11/18/2014	DPD	JAG
5	16-0188	-039 CH'D DIM WAS (Ø4.000) S.F. -.035 IS Ø4.02 (S.F. -.035).	10/24/2016	SM	JAG

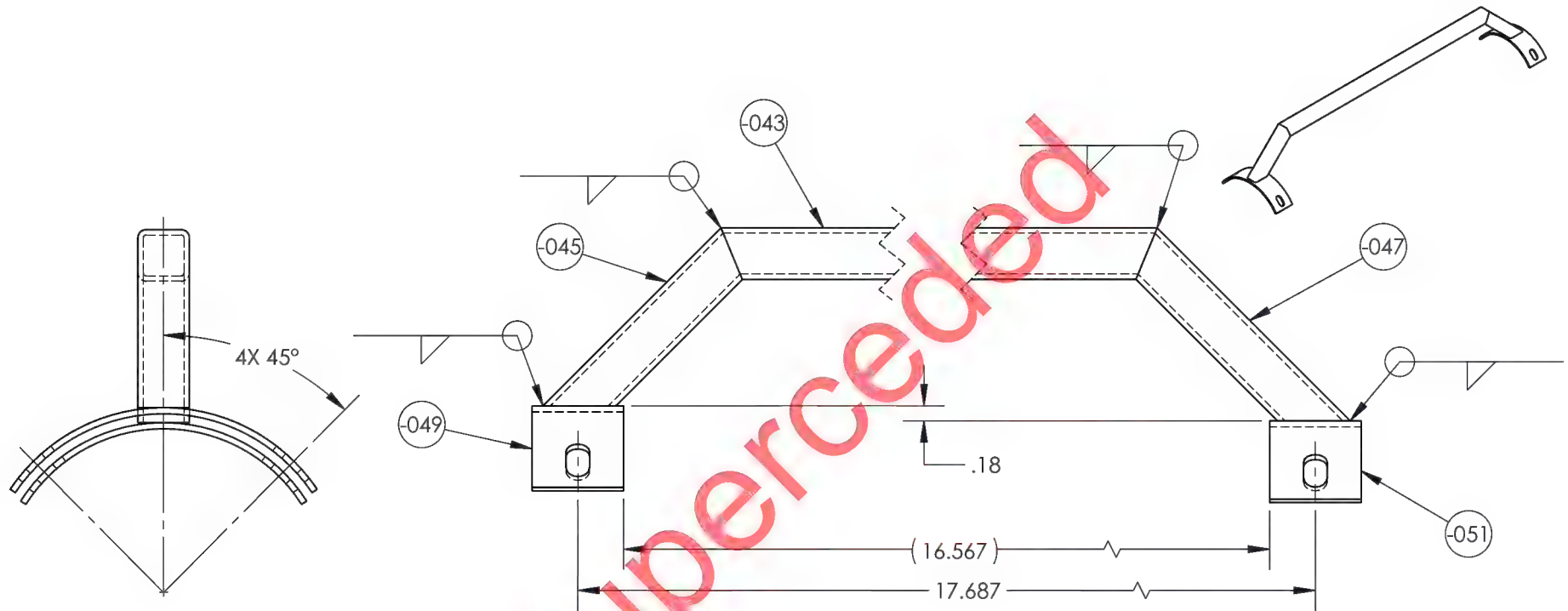


(-039)
SPRING COVER

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-039	REV 5
MAT'L 6061	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH SEE WELDMENT -033	.XX ± .01 ANGLES ± 5°
SPEC	.X ± .1 SURFACES = 125° ✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AGUSTA AW139
SCALE 1:2	DATE 2/12/2010
SHEET 18 OF 25	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-041 ADDED 16.562 REF DIM.	1/21/2013	BIM	SE
3		-041 CORRECTED DESCRIPTION IN BOM WAS "POWDERCOAT WELDMENT" IS "HANDLE WELDMENT", ADDED FINISH POWDER COAT FED #13538.	12/18/2013	CFS	
4	14-0217	-041 CH'D DIM WAS 17.682 IS 17.687.	2/12/2015	DPD	JAG

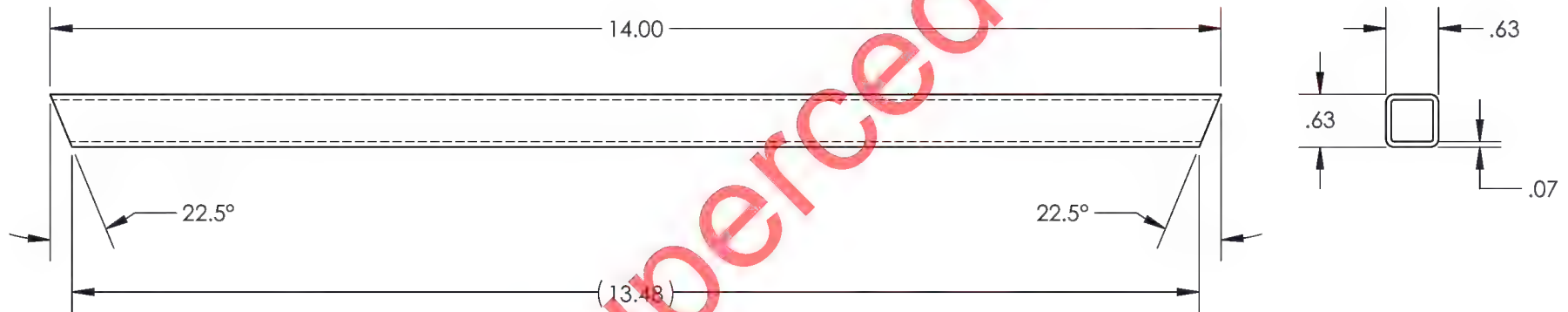
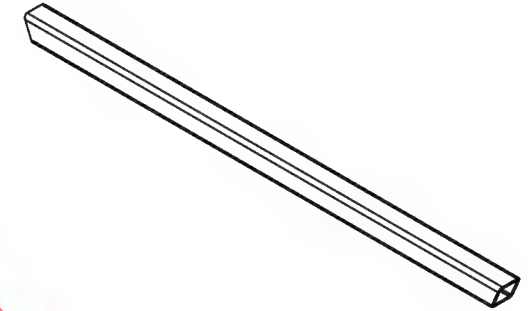


(-041)
HANDLE WELDMENT

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-041	REV 5
MAT'L FEAT TREAT FINISH POWDER COAT YELLOW SPEC FED #13538	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DRAWN BY: PERRITT	USED ON MODEL
CHECKED: CLOUGH	AGUSTA AW139
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:2	DATE 2/12/2010
SHEET 19 OF 25	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



Superceded

(-043)

TOP TUBE



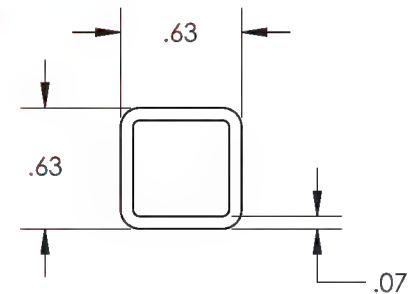
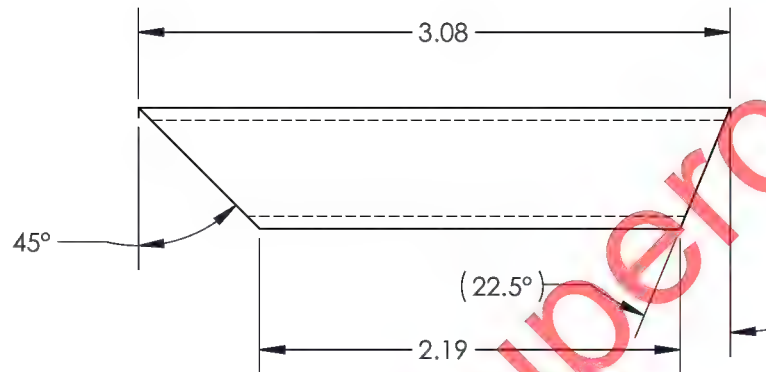
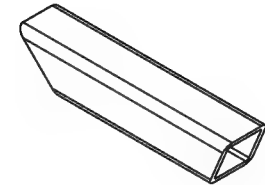
TITLE
TONGUE ASSEMBLY, TOW DOLLY

DWG NO. RBW0905G00134-3G-01-043 REV 5

MAT'L STEEL SQ. TUBING		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH SEE WELDMENT -041		.XXX ± .010 FRACTIONS ± 1/8	
SPEC		.XX ± .03 ANGLES ± 1°	
DRAWN BY: PERRITT		.X ± .1 SURFACES = 125°	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE 1:2		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DATE 2/12/2010		USED ON MODEL	
SHEET 20 OF 25		AGUSTA AW139	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



Superseded

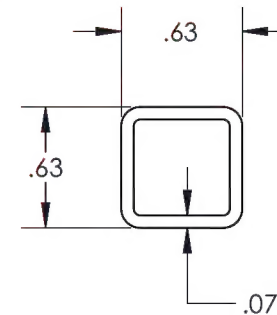
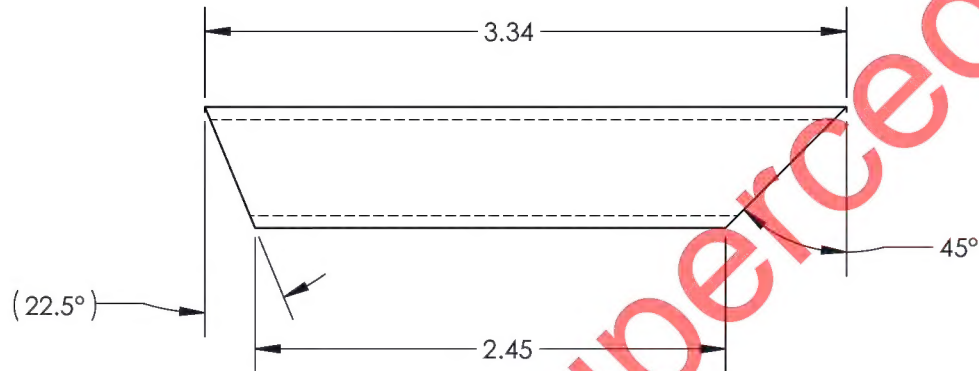
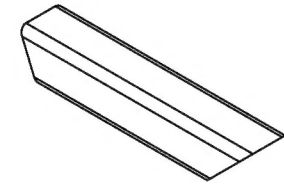
(-045)

FRONT TUBE

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-045	REV 5
MAT'L STEEL SQ. TUBING	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE WELDMENT -041	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125/✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	AGUSTA AW139
SCALE 1:1	DATE 2/12/2010
	SHEET 21 OF 25

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	



Superceded

(-047)

REAR TUBE



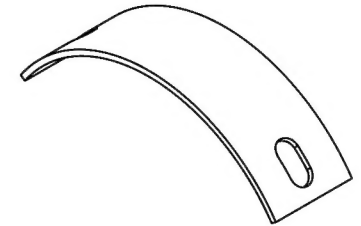
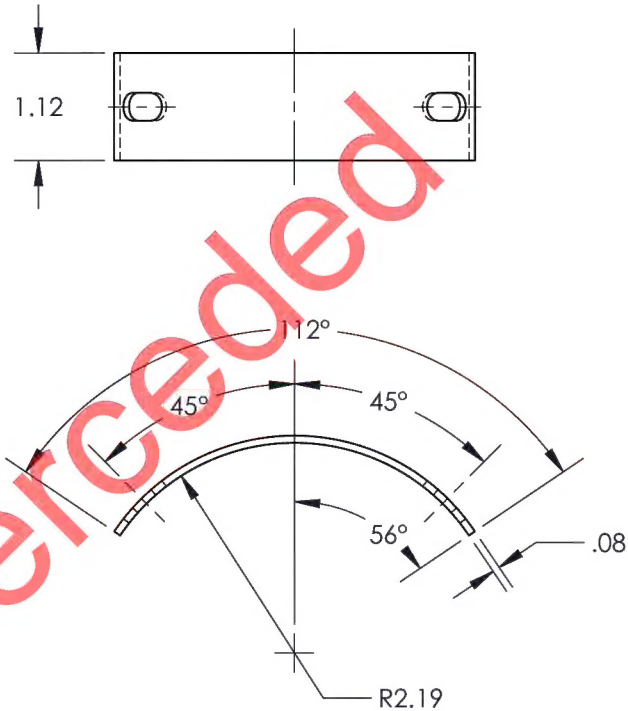
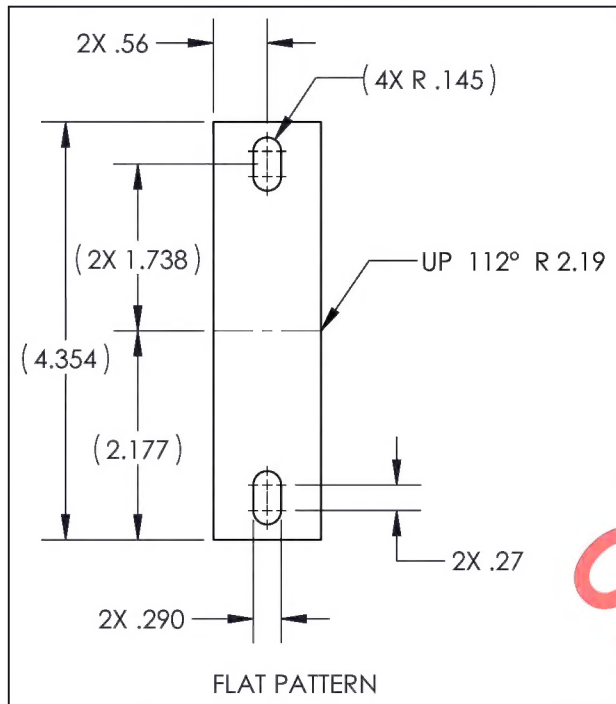
TITLE
TONGUE ASSEMBLY, TOW DOLLY

DWG NO. RBW0905G00134-3G-01-047 REV 5

MAT'L STEEL SQ. TUBING		UNLESS OTHERWISE SPECIFIED	
TREAT		DIMENSIONS ARE IN INCHES	
FINISH SEE WELDMENT -041		.XXX ± .010 FRACTIONS ± 1/8	
SPEC		.XX ± .03 ANGLES ± 1°	
DRAWN BY: PERRITT		.X ± .1 SURFACES = 125/	
CHECKED: CLOUGH		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE 1:1		3. INTERPRET DIM AND TOL PER	
DATE 2/12/2010		ASME Y14.5M-2009	
SHEET 22 OF 25		USED ON MODEL	
		AGUSTA AW139	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	14-0217	-049 CH'D DIM WAS .263 IS .28.	2/12/2015	DPD	JAG
5	16-0188	-49 CH'D DIM WAS (.075) IS .08, WAS 2X .28 IS 2X .290.	10/24/2016	SM	JAG



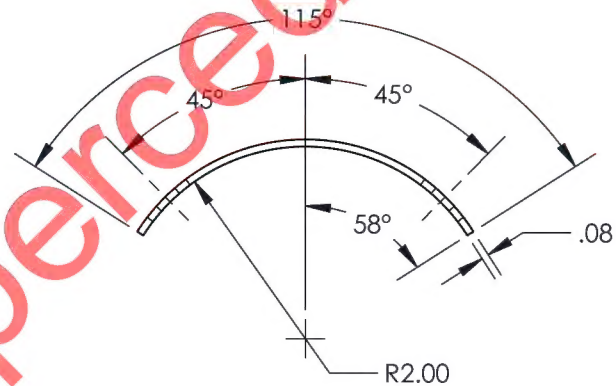
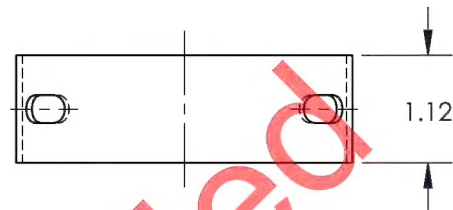
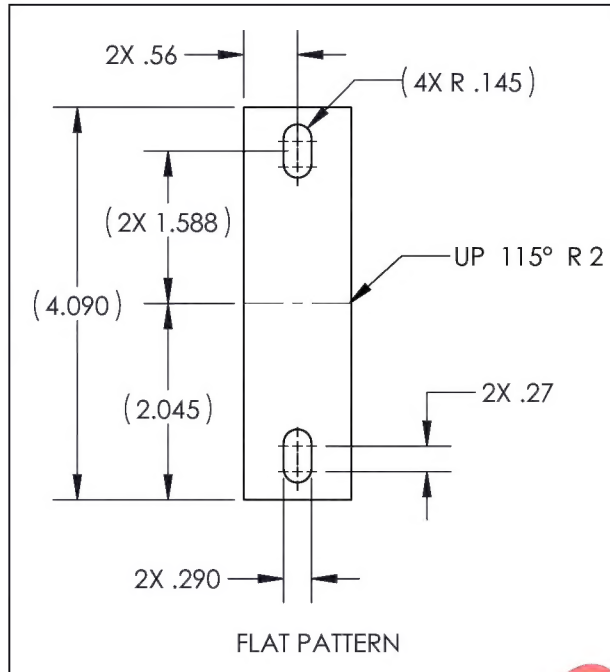
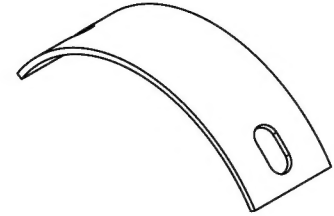
(-049)

FRONT MOUNT

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-049	REV 5
MAT'L 1018	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE WELDMENT -041	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 2/12/2010
	SHEET 23 OF 25

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
4	14-0217	-051 CH'D DIM WAS .263 IS .28.	2/12/2015	DPD	JAG
5	16-0188	-051 CH'DDIM WAS (.075) IS .08, WAS 2X .28 IS 2X .290.	10/24/2016	SM	JAG

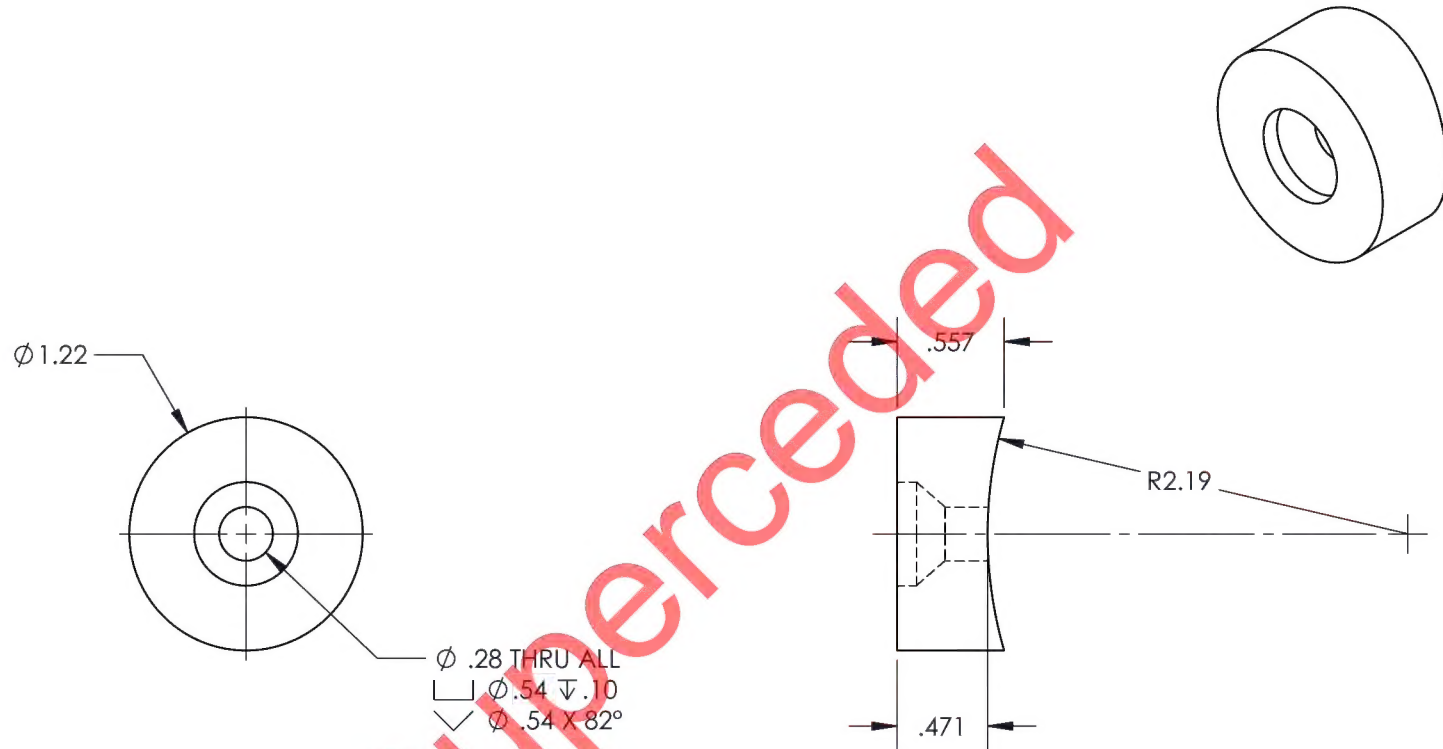


(-051)
REAR MOUNT

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-051	REV 5
MAT'L 1018	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE WELDMENT -041	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	AGUSTA AW139
SCALE 1:2	DATE 2/12/2010
	SHEET 24 OF 25

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		-155 CH'D C-SINK DIA WAS Ø.50 IS Ø.54.	12/18/2013	CFS	
4	14-0217	-155 CH'D DIM WAS Ø.257 IS Ø.28.	2/12/2015	DPD	JAG



(-155)

STOP

DART AEROSPACE	
TITLE TONGUE ASSEMBLY, TOW DOLLY	
DWG NO. RBW0905G00134-3G-01-155	REV 5
MAT'L WHITE DERLIN	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:1	DATE 2/12/2010
	SHEET 25 OF 25